

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,250,319 B2  
APPLICATION NO. : 10/825826  
DATED : July 31, 2007  
INVENTOR(S) : Liu et al.

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title page, item (57), in "Abstract", in column 2, line 3, delete "I<sub>n</sub>P," and insert -  
- InP, --, therefor.

In column 6, line 9, delete "FIG. 21" and insert -- FIG. 2I --, therefor.

In column 6, line 11, after "step 106." insert -- The elongated features 220 have a  
distance about 110 nm or greater from one another. --.

In column 6, lines 21-29, delete "At step 116, the first hard mask layer 206 is removed.  
The cross-sectional and top plan views of the substrate 200 having the elongated  
features 220 (e.g., silicon elongated structures) formed on the barrier layer 202 are  
depicted in FIG. 21 and FIG. 2J, respectively. In one exemplary embodiment, to remove  
the .alpha.-carbon layer 206, step 116 may use the process described above in reference  
to step 106. The elongated features 220 have a distance about 110 nm or greater from  
one another." and  
insert -- At step 118, if the method is being used for creating quantum dots, a second  
hard mask layer 216 and a second cap layer 218 are sequentially deposited over the  
elongated feature 220 and barrier layer 202 (FIG. 2K). Generally, the first and second  
hard mask layers 206, 216 and the first and second cap layers 208, 218 are  
correspondingly formed from same materials, e.g.,  $\alpha$ -carbon and silicon oxynitride,  
respectively. --, therefor.

In column 7, line 3, delete "(FIG. 20)" and insert -- (FIG. 2O) --, therefor.

In column 10, line 6, in Claim 11, delete "InP," and insert -- InP, --, therefor.

In column 10, line 21, in Claim 19, delete "quantom" and insert -- quantum --, therefor.

In column 10, line 23, in Claim 20, delete "quantom" and insert -- quantum --, therefor.

In column 10, line 24, in Claim 20, after "formed" insert -- in --.

In column 10, line 32, in Claim 21, after "structure" delete "from".

In column 12, line 11, in Claim 42, after "comprises" insert -- : --.

In column 12, line 45, in Claim 56, delete "claim 51," and insert -- claim 21, --, therefor.

In column 12, line 45, in Claim 56, delete "quantom" and insert -- quantum --, therefor.

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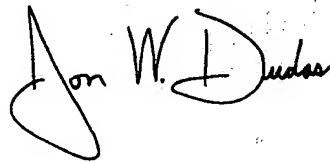
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In column 12, line 47, in Claim 57, delete "claim 51," and insert -- claim 21, --, therefor.

In column 12, line 47, in Claim 57, delete "quantom" and insert -- quantum --, therefor.

Signed and Sealed this

Eleventh Day of December, 2007

A handwritten signature in black ink, appearing to read "Jon W. I. Dudas". The signature is stylized with a large, looping initial "J" and a distinct "I" before the last name.

JON W. DUDAS  
*Director of the United States Patent and Trademark Office*